

ABSTRACT OF THE DISCLOSURE

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~~Process and device for depositing, by electron cyclotron resonance plasma, a web of carbon nanofibres or nanotubes, on a substrate without a catalyst, by injection of a microwave power into a deposition chamber comprising a magnetic structure with a highly unbalanced magnetic mirror and at least one electron cyclotron resonance zone within the interior of the said deposition chamber itself and opposite the said substrate, in which, under a pressure of less than 10^{-4} mbar, the ionisation and / or dissociation of a gas containing carbon is induced in the said magnetic mirror in the centre of the deposition chamber, thus producing species that deposit on the said substrate, which is heated.~~

In addition, the inventions concerns a film, which may be on a substrate, formed from a web or a network of interconnected carbon nanofibres or nanotubes, like a spider's web, the said film being exempt of a catalyst and a structure of several layers - a multi-layer structure - comprising at least two layers of a web of carbon nanofibres or nanotubes, as well as filters, electron accelerating or decelerating nanogrids and flat screens comprising such films or structures.

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~~No figure.~~